

## Product datasheet for **MG227046**

### Cyth2 (NM\_001112701) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyth2 (NM_001112701) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyth2
Synonyms:	ARNO; CLM2; Pscd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227046 representing NM_001112701 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGACGGTGTCTACGAGCCCCAGACTTGACTCCAGAGGAGCGCATGGAGTTGGAGAACATCCGGC  
GGCGCAAGCAGGAGCTGCTGGTGGAGATCCAGCGCCTGCGAGAAGAGCTAAGTGAAGCTATGAGCGAGGT  
GGAGGGTCTGGAGGCCAATGAGGGCAGTAAGACCTTGACGCGGAACCGGAAGATGCCAATGGGCAGGAAG  
AAATTCACATGGACCCAAAAAGGGGATCCAATTCTTGGTGGAGCATGAACTTCTGCAGAACACGCCTG  
AGGAAATTGCCCGCTTCTGTACAAGGGCGAGGGGCTGAACAAGACAGCCATTGGGGACTACCTAGGGGA  
AAGGGAAGAGCTGAACCTGTCTGTGCTCCATGCTTCTGTGGATCTCCATGAGTTCACCGACCTCAACCTG  
GTGCAGGCCCTCCGCAATTCCTATGGAGCTTTCGCCTCCTGGAGAGGCTCAGAAAATTGATCGAATGA  
TGGAGGCCTTTGCCAGAGATACTGCTTATGCAACCCTGGGGTCTTCCAGTCTACAGACACCTGCTACGT  
GTTGTCTTTGCCGTGATCATGCTGAACACCAGCCTTCAAAATCCCAATGTCAGGGACAAGCCGGGCCTG  
GAGCGCTTTGTGGCCATGAACCGGGCATCAACGAGGGTGGGGATCTGCCTGAGGATCTTCTCAGGAACC  
TCTACGACAGCATCCGGAACGAGCCCTCAAAAATCCAGAGGATGATGGGAATGATCTCACCCACACCTT  
CTTCAACCCAGACCGAGAGGGCTGGCTCCTAAAGCTGGGAGGGGGCCGGTGAAGACTTGGAAAGCGGCGC  
TGTTTCATCCTTACAGACAACCTGCTACTACTTTGAATACACTACGGACAAGGAGCCCGAGGGATTA  
TCCCCTAGAGAACCTGAGCATCCGGGAGGTGGACGATCCTCGGAAGCCGAAGTCTTGGAGCTTTACAT  
TCCCAACAATAAGGGACAGCTCATCAAAGCCTGCAAAAACAGAGGCTGACGGCCGGGTAGTGGAGGGGAAC  
CACATGGTGTACCGAATCTCAGCACCCACCCAGGAGGAGAAAGATGAGTGGATCAAATCCATCCAGGCTG  
CTGTAAGTGTGGACCCCTTCTATGAGATGTTGGCAGCAAGAAAGAAGCGAATTTCTGTGAAGAAGAAGCA  
AGAACAACCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG227046 representing NM\_001112701  
Red=Cloning site Green=Tags(s)

MEDGVYEPPDLTPEERMELNIRRRKQELLVEIQRLREELSEAMSEVEGLEANEKSKTLQRNRKMMAMGRK  
 KFNMDPKKGIQFLVEHELLQNTPEEIAFLYKGEGLNKTAIGDYLGEREELNLSVLHASVDLHEFTDLNL  
 VQALRQFLWSFRLPGEAQKIDRMFAAQRYCLCNPGVFQSTDTCYVLSFAVIMLNTSLHNPVNRDKPGL  
 ERFVAMNRGINEGGDLPEDLLRNLYDSIRNEPFKIPEDDGNDLTHTFNPDREGWLLKLGGRVKTWKRR  
 WFILTDNCLYYFEYTTDKPRGIIPLENLSIREVDDPRKPNCFELYIPNNKGQLIKACKTEADGRVVEGN  
 HMYRISAPTQEEKDEWIKSIQAAVSVDPFYEMLAARKKRISVKKKQEQP

TRTRPLE - GFP Tag - V

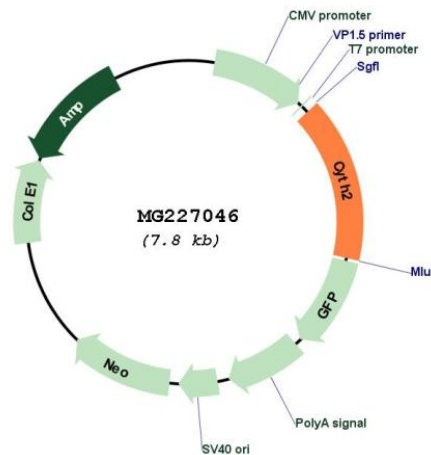
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001112701

<b>ORF Size:</b>	1197 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001112701.1</a> , <a href="#">NP_001106171.1</a>
<b>RefSeq Size:</b>	2524 bp
<b>RefSeq ORF:</b>	1200 bp
<b>Locus ID:</b>	19158
<b>UniProt ID:</b>	<a href="#">P63034</a>
<b>Cytogenetics:</b>	7 B3
<b>Gene Summary:</b>	Acts as a guanine-nucleotide exchange factor (GEF). Promotes guanine-nucleotide exchange on ARF1, ARF3 and ARF6. Activates ARF factors through replacement of GDP with GTP (PubMed:18042453). The cell membrane form, in association with ARL4 proteins, recruits ARF6 to the plasma membrane (By similarity). Involved in neurite growth (PubMed:25326380). [UniProtKB/Swiss-Prot Function]